

What is claimed is:

1. A data communication method for providing voice and data service to a mobile communication device, the method comprising:

5 receiving a request for data service from the mobile communication device;

determining whether the mobile communication device is registered to a home network;

10 determining whether reject data is stored in the mobile communication device; and

determining whether the mobile communication device is registered to a first mobile service center (MSC):

2. The method of claim 1, further comprising:

15 providing data service to the mobile communication device, if reject data is not stored in the mobile communication device.

3. The method of claim 1, further comprising:

20 providing data service to the mobile communication device, when the reject data is stored in the mobile communication device in a pending status and the mobile communication device is registered to the first MSC.

4. The method of claim 1, further comprising:

25 transmitting the reject data to the mobile communication device, when the mobile communication device is not registered to the home network.

5. The method of claim 1, further comprising:
transmitting the reject data to the mobile communication device, whether
the mobile communication device is not registered to the first MSC.

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6. The method of claim 4, further comprising:
setting the reject data to pending status.

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7. The method of claim 6, further comprising:
storing the reject data in a memory of the mobile communication device.

8. The method of claim 5, further comprising:
setting the reject data to pending status.

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9. The method of claim 8, further comprising:
storing the reject data in a memory of the mobile communication device.

10. The method of claim 1, wherein the data service comprises
general packet radio service (GPRS).

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11. A data communication method for providing voice and data
service to a mobile communication device, the method comprising:

transmitting a request for data service to a base station in a first MSC;
wherein the BS determines: whether the mobile communication device submitting
the request is registered to a home network when reject data is stored in the

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mobile communication device, and when the mobile communication device is registered to the first MSC.

12. The method of claim 11, further comprising:

5 receiving access to data service, when the reject data is not stored in the mobile communication device.

13. The method of claim 11, further comprising:

10 receiving access to data service, when the reject data is stored in the mobile communication device, in a pending status, and the mobile communication device is registered to the first MSC.

14. The method of claim 11, further comprising:

15 receiving the reject data from the BS, when the mobile communication device is not registered to the home network.

15. The method of claim 11, further comprising:

20 receiving the reject data from the BS, when the mobile communication device is not registered to the first MSC.

16. The method of claim 14, further comprising:

setting the reject data to pending status.

17. The method of claim 16, further comprising:

25 storing the reject data in memory.

18. The method of claim 15, further comprising:
setting the reject data to pending status.

5 19. The method of claim 18, further comprising:
storing the reject data in memory.

20. The method of claim 11, wherein the data service comprises general
packet radio service (GPRS).

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21. A method for operating a data communication service in a mobile
communication system, the method comprising:

transmitting a reject data for rejecting data communication service to a
user equipment, when the user equipment registered in a first mobile switching
15 center requests the data communication service in a roaming area of a second
mobile switching center; and
setting the reject data to a pending status.

22. The method of claim 21 further comprising:
20 providing the data communication service on the basis of the reject data
set in the pending status; when the user equipment requests the data
communication service in a home area of the first mobile switching center.

23. The method of claim 22, wherein the data communication service is
25 a general packet radio service provided by the mobile communication system.

24. The method of claim 22, wherein providing the data communication service comprises:

deciding whether the user equipment has been registered in the first mobile switching center, when the user equipment moves to the home area of the first mobile switching center; and

providing the data communication service to the user equipment, when the user equipment has been registered in the first mobile switching center.

25. The method of claim 24, further comprising:

rejecting the data communication service, when the user equipment is located in the home area of the first mobile switching center and has not been registered in the first mobile switching center.

26. The method of claim 22, further comprising:

providing the data communication service to the user equipment, when the reject data has not been set in the user equipment.

27. The method of claim 22, wherein the reject data is stored in a memory of the user equipment as a pending signal.

28. A method for operating a data communication service in a global system for mobile communication, the method comprising:

deciding whether a user equipment requests the data communication service in real time;

deciding whether the user equipment requests the data communication service in a home area of a first mobile switching center where the user equipment has been registered;

deciding whether a reject data has been set in the user equipment in a pending status, when the user equipment requests the data communication service in the home area; and

providing the data communication service to the user equipment, when the reject data has not been set in the user equipment.

29. The method of claim 28, further comprising:

deciding whether the user equipment has been registered in the first mobile switching center, when the reject data has been set in the user equipment in the pending status;

providing the data communication service to the user equipment, when the user equipment has been registered in the first mobile switching center;

rejecting the data communication service, when the user equipment setting the reject data in the pending status has not been registered in the first mobile switching center;

transmitting a reject data for rejecting the data communication service to the user equipment, when the user equipment registered in the first mobile switching center requests the data communication service in a roaming area of a second mobile switching center;

setting the reject data in the pending status; and

storing the setting information in a memory of the user equipment.

30. The method of claim 29, wherein the data communication service is a general packet radio service (GPRS) provided by the global system for mobile communication (GSM).